

## Claims

1. An electrode for electric discharge surface treatment used in electric discharge surface treatment for forming a hard coating on the surface of a treated material through the energy by generating electric discharge between the electrode and the treated material, characterized by mixing at least a powder of metal carbide and a powder of metal hydride and performing heating treatment after compression molding and desorbing hydrogen in the metal hydride to be formed.
2. An electrode for electric discharge surface treatment as defined in claim 1, characterized in that the metal carbide is titanium carbide and the metal hydride is titanium hydride.
3. An electrode for electric discharge surface treatment as defined in claim 1, characterized in that a mixture ratio of the powder of the metal carbide to the powder of the metal hydride is set according to desired electrode strength and crumbliness.
4. A manufacturing method of an electrode for electric discharge surface treatment used in electric discharge surface treatment for forming a hard coating on the surface of a treated material through the energy by generating electric discharge between the electrode and the treated material, characterized by mixing at least a powder of metal carbide and a powder of metal hydride and performing heating treatment after compression molding and desorbing hydrogen in the metal hydride to manufacture the electrode for electric discharge surface

treatment.

5. A manufacturing method of an electrode for electric discharge surface treatment as defined in claim 4, characterized in that the metal carbide is titanium carbide and the metal hydride is titanium hydride.

6. A manufacturing method of an electrode for electric discharge surface treatment as defined in claim 4, characterized in that a mixture ratio of the powder of the metal carbide to the powder of the metal hydride is set according to desired electrode strength and crumbliness.

00787359 001601